



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

RUSH

647.1513
Job Sheet 169405



Part No: 647.1513

Job Qty: 6 ea

Part Name: Upper Deflector



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 12/11/17

Job Tracking No:

Due Date: 12/18/17

Created By: Mario Poulin

Type: SOLD

Description:

Note: DWG REV D IPP Rev.A New issue JFS 16/03/09 Verified by: JLM

H1 Priority

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	6 Ea		12/16/17	0.00	0.00	Start Up Machining-1		<i>SBC 17/12/24</i>
100	Bandsaw	6 pcs		12/16/17	0.00	0.02	Bandsaw1		<i>SBC 11/11/11</i>
110	CNC Vertical Machining	6 pcs		12/18/17	0.50	5.71	HAAS1-1		<i>SBC 11/11/11</i>
120	QC	6 pcs		12/18/17	0.00	0.00	QC2 Machining-1		<i>SBC 11/11/11</i>
130	QC	6 pcs		12/18/17	0.00	0.00	QC8 Machining-1		<i>SBC 11/11/11</i>
140	Outsource	6 pcs		12/18/17	0.00	0.00	Outsource4		<i>17-12-27</i>
150	Packaging	6 pcs		12/18/17	0.00	0.00	Packaging2		<i>18/11/11</i>
155	QC	6 pcs		12/18/17	0.00	0.00	<i>QC5 QCB</i>		<i>18/01/11</i>
180	Packaging	6 pcs		12/18/17	0.00	0.00	Packaging3-1		<i>18/01/11</i>
190	QC21-SA	6 Ea		12/18/17	0.00	0.00	QC21		<i>18/01/12</i>

Part Op 100 - Cut Blank at 19.500"

Descriptions: 110 - 1-Machine per folio FB465

140 - Issue P/O to ATG

180 - ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

Hand Anodize color Black/Prime as per Dwg 647.1500 RWD

JAN 12 2016

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	M7075T6B0.375X6.000	5	1	0	0
	<i>5017377 = 9.8'</i>				

Part Specifications

Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Upper Deflector	0.130inches $\pm$ 0.010	0.140 0.120		
2	Upper Deflector	45.000degrees $\pm$ 0.500	45.500 44.500	Angle	
3	Upper Deflector	0.177inches + 0.005 - 0.001	0.182 0.176	Diameter	
4	Upper Deflector	0.318inches $\pm$ 0.005	0.323 0.313		
5	Upper Deflector	23.000degrees $\pm$ 0.500	23.500 22.500	Angle	
6	Upper Deflector	4.220inches $\pm$ 0.002	4.222 4.218		
7	Upper Deflector	2.110inches $\pm$ 0.002	2.112		

5021039

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ N Date : _____ Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 CANADA TEL.: 1 613 632-5200 Email: sales@dartaero.com www.dartaerospace.com	DISPOSITION Rework ☐ Scrap ☐ Re-assign ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Cross tube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																
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		QTY Effective : _____	MRB (QSI042) Approval																														
		Disposition	Completed By																														
			Lead hand / Supervisor Approval Verification																														
			QC / QA Coordinator Approval																														
FAULT CATEGORY																																	
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 Mfg Date: 12/13/17
 Job No: 169405
647.1513**Start up Operation****PART NO:****Revision:****Operation:****Change No:**

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DART
 AEROSPACE
S021041**Upper Deflector**

			2.108	
8	Upper Deflector	10.180inches $\pm$ 0.010	10.190 10.170	
9	Upper Deflector	0.188inches $\begin{matrix} + 0.005 \\ - 0.001 \end{matrix}$	0.193 0.187	Diameter
10	Upper Deflector	4.000inches $\pm$ 0.010	4.010 3.990	
11	Upper Deflector	0.700inches $\pm$ 0.010	0.710 0.690	
12	Upper Deflector	0.310inches $\pm$ 0.010	0.320 0.300	
13	Upper Deflector	60.000degrees $\pm$ 0.500	60.500 59.500	Angle
14	Upper Deflector	10.890inches $\pm$ 0.010	10.900 10.880	
15	Upper Deflector	6.340inches $\pm$ 0.010	6.350 6.330	
16	Upper Deflector	0.921inches $\pm$ 0.005	0.926 0.916	
17	Upper Deflector	0.340inches $\begin{matrix} + 0.000 \\ - 0.002 \end{matrix}$	0.340 0.338	
18	Upper Deflector	0.040inches $\pm$ 0.010	0.050 0.030	
19	Upper Deflector	45.000degrees $\pm$ 0.500	45.500 44.500	Angle
20	Upper Deflector	0.380inches $\pm$ 0.010	0.390 0.370	
21	Upper Deflector	10.950inches $\pm$ 0.010	10.960 10.940	

Plex 12/11/17 8:39 AM dart.poulin.mario

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038727

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalonde, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO038727

PO Date: 1/5/18

Due Date: 1/12/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments:

E-MAILED
JAN 11 2018

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	169405	647.1513	Upper Deflector Issue P/O to ATG : Hard Anodize Color Black / Prime as per Dwg 647.1500 Rev. D	Firmed	1/11/18	12 pcs	0 pcs	12 pcs	\$12.45/pcs	\$149.40
Line Item Note #1 Priority - RUSH!!!										
2	168276	647.0114	Clip Issue P/O ATG, black anodize and prime as per dwg 647.0114 Rev. A	Firmed	1/30/17	50 pcs	0 pcs	50 pcs	\$10.20/pcs	\$510.00
3	168277	647.0115	Clip Issue P/O to ATG : 1- Hard Anodize Color Black And Prime as per Dwg 647.0100 Rev.A	Firmed	1/30/17	50 pcs	0 pcs	50 pcs	\$10.20/pcs	\$510.00
4	168273	647.0111	Panel Issue P/O to ATG : Hard Anodize, Color Black / Prime as per Dwg 647.0100 Rev. A	Firmed	1/30/17	15 pcs	0 pcs	15 pcs	\$39.95/pcs	\$599.25
5	168278	647.0116	Doubler Issue P/O ATG, black anodize and prime as per dwg 647.0116 Rev. A	Firmed	1/30/17	15 pcs	0 pcs	15 pcs	\$8.10/pcs	\$121.50
6	168286	647.1511	Lower Deflector Issue P/O to ATG : Hard Anodize Color Black, Prime as per Dwg 647.1500 Rev. D.	Firmed	1/30/17	4 pcs	0 pcs	4 pcs	\$11.85/pcs	\$47.40
7	169472	647.1612		Firmed	1/30/17	12 pcs	0 pcs	12 pcs	\$7.60/pcs	\$91.20



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914409

Date: 11-Jan-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
12 ea	Part: 647.1513 Upper deflector Job: 22285	Rev: D PO: PO038727	Line: 1
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>11/1/18</u> Certified Signature: <u>[Signature]</u> Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.			
Made in Canada.			



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Inventory

Operation Number	Operation	Serial Number	Job	Quantity	Weight	Original Serial Number	Location	Container	Status	Added	Special Comments	Label	Supplier	Change No
Part Number: 647.1513 Revision: Upper Deflector														
190	QC21-SA	S021041	169405	11 Ea	0	S021041	CCK015	Bin	Stock	12/13/2017	Issue Container			
Operation Totals:		1		11	0									
Part Totals:		1		11	0									
Part Number: M7075T6S0.375X6.000 Revision: 7075-T6S Sheet .375" Thick Plate X 6" Wide														
100	Receive Ft	S021039	169405	5 ft	0		Start Up Machining-1		Stock	12/13/2017	Issue Container			
Operation Totals:		1		5	0									
Part Totals:		1		5	0									
Totals:		2		16	0									

Plex 1/12/2018 7:36 AM Dart.Lajeunesse.Marie